

What is claimed is:

1. A disk table rotation supporting structure, comprising:
 - a tray being movable back and forth and having a circular inner wall surface that stands upward, a bottom surface provided on an inside of the inner wall surface, a central axis portion that stands upward on a center portion of the bottom surface, and a receiving portion disposed around the central axis portion;
 - a disk table that can load a plurality of disks thereon and has a large circular-ring supporting rib provided downward in neighborhood of the inner wall surface and in the vicinity of a periphery of the disk table, a central through hole portion opened in a center portion and into which the central axis portion is inserted, and a small circular-ring rib extending downward from a periphery of the central through hole portion around the central axis portion to enter into the receiving portion of the tray, the large circular-ring supporting rib and the small circular-ring rib positioned close to the bottom surface of the tray to support rotatably the disk table on the tray;
 - a cam body having a gear portion;
 - an idler gear rotated by a driving motor via a rotating/driving mechanism and having a gear tooth portion that engages with the gear portion of the cam body when the idler gear is moved to one side to drive a disk playing mechanism that moves vertically a turn table, and that engages with an inward gear tooth portion provided on the large circular-ring

supporting rib; and

a lubricating member;

wherein only the large circular-ring supporting rib is supported rotatably on the bottom surface of the tray via the lubricating member and the disk table is rotated by a rotation of the idler gear via the rotating/driving mechanism in this situation.

2. A disk table rotation supporting structure, comprising:

10 a tray having an inner wall surface that stands upward, a bottom surface provided on an inside of the inner wall surface, a central axis portion that stands upward on a center portion of the bottom surface, and a receiving portion disposed around the central axis portion;

15 a disk table having a large circular-ring supporting rib provided downward in neighborhood of the inner wall surface and in the vicinity of a periphery of the disk table, a central through hole portion opened in a center portion and into which the central axis portion is inserted, and a small circular-ring rib extending downward from a periphery of the central through hole portion, the large circular-ring supporting rib and the small circular-ring rib positioned close to the bottom surface of the tray to support rotatably the disk table on the tray; and

25 a lubricating member;

wherein only the large circular-ring supporting rib is supported rotatably on the bottom surface of the tray via the lubricating member and the disk table is rotated by a rotation of the idler gear via the rotating/driving mechanism in this
5 situation.

3. The disk table rotation supporting structure according to claim 2, wherein the receiving portion is an annular recess formed on the bottom surface of the tray.

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